Sponsoring Organizations

ATIC	Association Royale Belge Technique de l'Industrie du Chauffage, de la Ventilation et des Branches Connexes
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.
IIR	International Institute of Refrigeration
REHVA	Federation of European Heating and Air-Conditioning Associations
ABAV	Association Belge des Acousticiens
ABOK	Association of Engineers for Heating Ventilation Air-Conditioning Heat Supply and Building Thermal Physics (CIS)
ADEME	Agence de l'Environnement et de la Maîtrise de l'Energie
AIVC	Air Infiltration and Ventilation Centre (U.K.)
APPA	Association pour la Prévention de la Pollution Atmosphérique (France)
BOMA CANADA	Building Owners and Managers Association of Canada
CSTC-WTCB	Centre Scientifique et Technique de la Construction (Belgium)
IBI	Intelligent Buildings Institute of North America
IUAPPA	International Union of Air Pollution Prevention Associations
SOFRAB	Société Française d'Aérobiologie
SRBII	Société Royale Belge des Ingénieurs et Industriels

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Provisional Program

Plenary Session Speakers

"Opening address by a governmental representative"

TOTAL SYSTEM ENVIRONMENTS TO SATISFY OCCUPANT NEEDS
R. Charles, President of ASHRAE 1993, American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc., Charles & Braun Consulting Engineers, San Francisco (USA)

CHALLENGES FACING MANUFACTURERS OF IAQ EQUIPMENT
D.G. Rich, President of ASHRAE 1992, American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc. and Carrier Corporation (USA)

GOVERNMENTAL AND RESEARCH ACTIVITIES IN REHVA COUNTRIES
B. Jacobsen, President of REHVA, Federation of European Heating and Air-Conditioning Associations

FUNDAMENTAL EUROPEAN DOCUMENTS ON ENERGY, HYGIENE, HEALTH AND ENVIRONMENT AND THE FUTURE STANDARDIZATION
J. Uyttenbroeck, CSTC - WTCB, Centre Scientifique et Technique de la Construction (BELGIUM)

Keynotes Lectures

DESIGNING BUILDINGS FOR IMPROVED INDOOR AIR QUALITY
D.S. Wallinshaw, Ph. D. Eng., Indoor Air Technologies, Ottawa (CANADA)

ARCHITECTURAL DESIGN, BUILDING ENVELOPE AND ENERGY EFFICIENCY
H.A. Roba, Eng., Marcq & ROBA Ingénieurs - Conseils, Brussels (BELGIUM)

HVAC, A LINK BETWEEN HUMAN DEMANDS AND BUILDING PHYSICS
F. Steimle, Eng., Universitat Essen GHS, Institut für Angewandte, Thermodynamik und Klimatechnik, Essen (GERMANY)

ENERGY CONSUMPTION AND ENERGY PATTERNS IN TEMPERATE CLIMATES
J. Lebrun, Eng., Laboratoire de Thermodynamique, Université de Liège (BELGIUM)

HVAC EQUIPMENT: ALTERNATIVE SOLUTIONS FOR REFRIGERANTS
A. Pilatte, Eng., Faculté Polytechnique de Mons, Mons (BELGIUM)

RISQUES LIES AUX FIBRES MINERALES DANS LES LOCAUX
J. Bignon, M.D., Clinique de Pathologie Respiratoire et Environnement, Université Paris XII, Créteil (FRANCE)

INDOOR AIR MICROBIOLOGICAL CONTAMINATION IN PERSPECTIVE
R. Rylander, M.D., Dept. of Environmental Medicine, University of Gothenburg (SWEDEN)

THE ENVIRONMENTAL CHALLENGE FACED BY AIR CONDITIONING
L. Lucas, Eng., Institut International du Froid, Paris (FRANCE)

DIAGNOSIS AND MANAGEMENT OF ALLERGIC TROUBLES DUE TO POOR IAQ
M.R. Ickovic, M.D., Société Française d'Aérobiologie et Institut Pasteur, Paris (FRANCE)

PERFORMANCE AND SUBSISTENCE-ARCHITECTURE FOR THE DEVELOPED AND DEVELOPING WORLD
B. Donaldson, Eng., Tishman Research Corporation, New York (USA)

INTERNATIONAL STANDARDIZATION FOR VENTILATION AND THERMAL CONFORT REQUIREMENTS
B. Olesen, Eng., Virginia Polytech Institute and State University, Blackburg, VA. (USA)

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Content of Sessions

(Submitted papers)

COMPARATIVE INDOOR AIR QUALITY DEMAND CONTROL STRATEGIES FOR VAV SYSTEMS IN TEMPERATE CLIMATES
M. Meckler (Meckler Engineers Group, Encino, Ca., USA)

AIRBORNE LEVELS AND PARTICLE SIZE DISTRIBUTION OF CAT MAJOR ALLERGEN (FEL d I) FOLLOWING USE OF "ANTIALLERGIC" AND STANDARD VACUUM CLEANERS
F. de Blay, M. Ott, A. Vérot, F. Frey, G. Pauli (Pavillon Laennec, Hôpital Civil, Hôpitaux Universitaires de Strasbourg, France)

THE EFFECTS OF BREATHING-ZONE FILTRATION ON INDOOR AIR QUALITY AND SICK BUILDING SYNDROME
A. Hedge, G. Mitchell, J.F. McCarthy (Dept. of Design and Environmental Analysis, Cornell University, Ithaca, NY.; Centercore Inc., Wayne, PA.; Environmental Health & Engineering, Newton, MA., USA)

INDOOR AIR QUALITY AND SICK BUILDING SYNDROME IN 27 AIRCONDITIONED OFFICES: THE EFFECTS OF FIVE SMOKING POLICIES
A. Hedge, W.A. Erickson, G. Rubin (Dept. of Design and Environmental Analysis, Biometrics Unit, Cornell University, Ithaca, NY., USA)

ECOLOGY AND ALLERGENIC SIGNIFICANCE OF DOMESTIC MITES
F. Th. M. Spieksma (Lab. Aerobiology, Dept. Pulmonology, University Hospital, Leiden, The Netherlands)

RADON REDUCTION IN BUILDINGS: THE CASE OF TWO BELGIAN SCHOOLS
P. Cohilis, P. Wouters and P. Voordecker (Belgian Building Research Institute, CSTC-WTCB, Brussels, Belgium)

GEOGRAPHIC DISTRIBUTION OF RADON IN SOUTHERN BELGIUM: A FIRST APPROACH
F. Tondeur, I. Gerardy, C. Licour, N. Medaghri-Alaoui, N. Dubois (Institut Supérieur Industriel de Bruxelles, Brussels, Belgium)

THE ENERGY AND COMFORT PERFORMANCE OF LOW-ENERGY COOLING SYSTEMS IN SOUTHERN CALIFORNIA HOMES
Hofu Wu (California State Polytechnic University, Pomona, Ca., USA)

THE GAZ DE FRANCE EXPERIMENTAL BUILDING: AN UNIQUE TOOL FOR THE STUDY OF ENERGY SYSTEMS
F. Massard (Gaz de France, R & D Division CERUG, La Plaine Saint-Denis, France)

ADVANCED WORKPLACE DEMONSTRATION PROJECT
V. Hartkopf, V. Loftness, S.R. Lee, A. Mahdavi and J. Gauchel (Center of Building Performance and Diagnostics, Dept. of Architecture, Carnegie Mellon University, Pittsburgh, PA., USA)

JET-STREAM MODEL OF WIND EFFECT ON COMPOUND OBSTACLES
Yu. L. Savelyev (Urals Institute of Architecture and Art, Ekaterinburg, Russia)

RECUPERATION D'ENERGIE ET AUGMENTATION DE L'EFFICACITE ENERGETIQUE D'UN BATIMENT
S. Kajl (Ecole de technologie supérieure, Université du Québec, Montréal, Canada)

FEASIBILITY STUDY OF BUILDING HEATING & COOLING OPTIONS
T.P. Falvey (Havertown, PA., USA)

DEVELOPMENT OF A SIMPLIFIED METHOD FOR THE EVALUATIONS OF BUILDING ENERGY REQUIREMENTS FOR AIR CONDITIONING
V. Bocchio, V. Corrado, G.V. Fracastoro (Dipartimento di Energetica, Politecnico di Torino, Torino, Italy)

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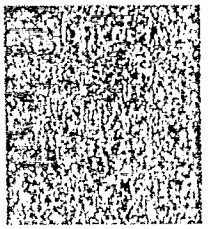


FIRST EXPERIENCES WITH THE UTILIZATION OF THE COMIS-SOFTWARE PACKAGE—A MULTIZONE AIR FLOW MODELLING SYSTEM—DEVELOPED AT LAWRENCE BERKELEY LABORATORY
S. Nowotny (IntCom GmbH Dresden, Dresden, Germany)

HEAT TRANSFER DESIGN OF BUILDING ENVELOPES IN THE MEDITERRANEAN AREA UNDER UNSTEADY STATE CONDITION
F. Comair, G. Menguy (Laboratoire d'Etudes thermique et solaire, Université Claude Bernard Lyon I, Villeurbanne, France)

EXPERIENCES WITH NATURALLY VENTILATED ATRIA
P. Simmonds (Research Development Engineer, R.T.B. Van Heugten b.v., Groningen, The Netherlands)

THE DESIGN, SIMULATION AND OPERATION OF A COMFORTABLE INSIDE CLIMATE FOR A STANDARD OFFICE
P. Simmonds (Research and Development Engineer, R.T.B. Van Heugten b.v., Groningen, The Netherlands)

IMPROVED VISUAL AND THERMAL COMFORT IN OFFICE BUILDINGS
D.M. Rowe (Dept. of Architectural and Design Science, University of Sydney, NSW., Australia)

IMPROVED TENANT COMFORT AND ENERGY EFFICIENCY IN LOCAL AUTHORITY APARTMENT COMPLEX ACHIEVED THROUGH A RETRO-FIT ELECTRONIC CONTROL SYSTEM
P. Corcoran (Dept. of Electronic Engineering, University College Galway, Galway, Ireland)

NEW BUILDING: LOW CONSUMPTION AND INCREASED COMFORT
X. Traver, A. Trias, X. Millet (BCN Projectes, Baix Llobregat, Catalunya, Spain)

HEAT LOSSES FROM AIR DUCTS
P. Fahlen (The Swedish National Testing and Research Institute, Borås, Sweden)

ENERGY IMPLICATION OF COMFORT STANDARDS
D. J. Croome, G. Gan, H. Swaid and H. B. Awbi (Dept. of Construction Management & Engineering, University of Reading, Reading, UK)

DAYLIGHT MODELS FOR THE NORTHERLY LATITUDES
. Muneer, R. C. Angus, R. S. Webb (Mechanical, Manufacturing & Software Engineering, Napier University Edinburgh, Heriot Watt University, Edinburgh, Scotland)

ARTIFICIAL ILLUMINANCE: SOME DIFFERENCES BETWEEN DESIGN AND REALITY
G. K. Cook (University of Reading, England)

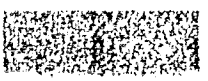
COMMISSIONING: FROM THEORY TO PRACTICE
J. P. Laurent (AIB-VINCOTTE, Brussels, Belgium)

INTELLIGENT BUILDING AND GLOBAL APPROACH OF COMFORT - DEVELOPMENT OF A SIMULATION TOOL
P. Michel, M. Regard (Ecole Nationale des Travaux Publics de l'Etat, Laboratoire Sciences de l'Habitat, Vaulx en Velin Cedex, France)

SITE ENVIRONMENTAL QUALITY MEASUREMENTS IN ENERGY EFFICIENT BUILDINGS
B. L. Krieg (Pacific Gas and Electric Company, San Ramon, Ca., USA)

THE CANADIAN RESPONSE TO "OPEN SYSTEMS" FOR BUILDING AUTOMATION
W. Netherington (Public Works Canada, Ottawa, Canada)

THE INFLUENCE OF TEMPERATURE AND SYSTEM OPERATION ON THE COLONIZATION OF COOLING TOWERS BY LEGIONELLA BACTERIA
C. Broadbent, R. H. Bentham (National Director Engineering Services, Dept. of Administrative Services, Canberra, Australia; Research Microbiologist at Repatriation General Hospital, Daw Park, South Australia)



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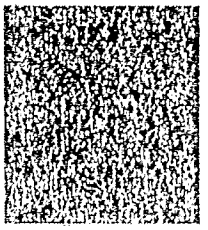

ENERGY CONSERVATION IN AN AIR CONDITIONING FACILITY
S. M. Sule (HVAC & R and Energy Management, Ahmedabad, India)

BUILDING ENERGY MANAGEMENT USING OCCUPANCY PREDICTION
G. Clark, P. Mehta, T. Thomson (Dept. Elec Eng, Brunel University, Uxbridge, UK; Dunwoody & Partners Ltd., London, UK)

EXPERIMENTAL RESULTS OF THREE DIMENSIONAL CONTROL VOLUME WITHIN A IMPERFECTLY MIXED FLUID
M. De Moor, D. Berckmans (Agricultural Engineering, Heverlee, Belgium)

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D. Berckmans, K. Van de Weyer, M. De Moor (Agricultural Engineering, Heverlee, Belgium)

DEMONSTRATION OF AIR BORNE IRRITANT CHEMICALS IN INDOOR AIR
R. C. Anderson (Anderson Laboratories Inc., Dedham, MA., USA)

INTEGRATION OF DEHUMIDIFICATION INTO LIFE-CYCLE SYSTEM DESIGN
A. Shaw, R. E. Luxton, P. G. Marshallsay (University of Adelaïde, Australia)

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DEMONSTRATING MAXIMUM ENERGY EFFICIENCY IN COMMERCIAL BUILDINGS
G. J. Brohard (Pacific Gas & Electric, San Ramon, Ca., USA)

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J. Ouellette, J. Olson (Madison, WI.), C. Reed (Rochester, MN), E. Fernandez-Caldas (Tampa, Fl.), CA. Alvarado (Monterey, Mexico), S. Gravesen (Copenhagen, Denmark)

DESIGN AND APPLICATION OF AN UPWARD PLUG FLOW VENTILATION SYSTEM
H. G. Burnley, Jr. (Philip Morris Inc., Richmond, VA., USA)

TETRACHLOROETHENE CONCENTRATIONS IN DWELLINGS ADJOINING DRY CLEANING SHOPS
P. Pluschke, B. Packebusch, G. Hantusch, A. Will (Chemisches Untersuchungsamt der Stadt Nürnberg, Nürnberg, Germany)

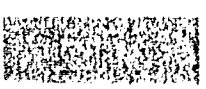
PRIMARY PREVENTION OF IAQ-PROBLEMS IN THE NEW CONOCO-BUILDING
G. Flatheim (Indoor Environment Consultant, Stavanger, Norway)

A METHOD FOR ESTIMATION OF BUILDING LAPLACE TRANSFER FUNCTIONS FROM DETAILED THERMAL MODELS AND APPLICATIONS
A. K. Athienitis (Concordia University, Montreal, Canada)

MICROBIAL VOLATILES (M-VOC) - A CAUSATIVE AGENT TO SICK BUILDING PROBLEMS
G. Ström, U. Palmgren & J. West (Pegasus Lab AB, Uppsala, Sweden)

SIMULATION AND EMULATION METHODS IN DESIGN, COMMISSIONING AND OPERATIONS OF HVAC SYSTEMS
R. Kohonen, J. Hyvärinen, P. Laitila (VTT Laboratory of Heating and Ventilation, Espoo, Finland)

INDOOR AIR QUALITY AND ENERGY CONSERVATION IN FACILITIES: THE MARRIAGE OF THE 1990'S
W. Hansen (NIAQ, Los Angeles, CA., USA)



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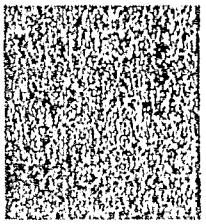

ASTHMA AND THE HOME ENVIRONMENT
D. Norback (Dept. of Occupational Medicine, Ing 91, University Hospital, Uppsala, Sweden)

"SUNRISE", THE CHEAP SOLAR HOT WATER SYSTEM
E. Hasselaar (Klimaatbouw R&D, Gouda, The Netherlands)

EXPERIMENTAL EXPOSURES TO (1→3)-B-D-glucan
R. Rylander (Dept. of Environmental Medicine, Gothenburg, Sweden)

ANALYSIS OF THE GLOBAL AND LOCAL THERMAL COMFORT CONDITIONS DUE TO SOME HEATING SYSTEM TYPOLOGIES
G. Rossi, M. Vio (Istituto Universitario Architettura die Venezia, Venezia, Italy)

THERMAL COMFORT ANALYSIS IN A PASSIVE SOLAR BUILDING
Ph. André, J. Nicolas and B. Colson (Fondation Universitaire Luxembourgeoise, Arlon, Belgium)

AN INTEGRATED SOFTWARE FOR BUILDING DESIGN
Ph. André and J. Nicolas (Fondation Universitaire Luxembourgeoise, Arlon, Belgium)

ASPECTS OF ELECTRICAL AIRCLEANERS
R. A. Roos, J. P. Borra, E. Jamet, P. H. W. Vercoulen, J. C. M. Marynissen (Laboratoire d'Aéroactivité, Longny au Perche, France; T. U. Delft, Delft, The Netherlands)

THE ARCHITECTURE OF ENERGY OPTIMISED BUILDINGS
J. Kahl, J-P. Kerstens (Pas Podium Für Architekturstudien, Institut für Industrielle Bauproduktion, T.U. Karlsruhe, Germany)

GROUND-COUPLED BUILDING DESIGN USING THE INVERTED CAVE CONCEPT
Th. E. Loxley (Inverted Cave Education, Frederick, MD., USA)

ALTERNATE DISPUTE RESOLUTION: THE COLLABORATIVE APPROACH TO SOLVING CONSTRUCTION DISPUTES
H. Clavier (Interlex Group of Canada Inc., Montreal, Canada)

DETECTING ACUTE TOXICITY OF PRODUCT EMISSIONS BY ASTM E 981
R. Anderson (Anderson Laboratories Inc., Dedham, MA., USA)

APPLICATION OF THE BOUNDARY STATE METHOD FOR SEARCH AND PREDICTION OF REFRIGERANT MIXTURES FOR AIR CONDITIONING SYSTEMS
L. Z. Boshkov, V. P. Chepurnenko (Institute of Low-Temperature Engineering and Energetic, Odessa, Ukraine)

HEATING-LOAD LIMITATION BY STANDARDIZATION
P. Novak (University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia)

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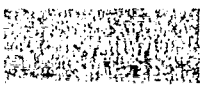
V. Butala, P. Novak, L. Pahor (University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia)

HIGH EFFICIENCY LOW EMISSION HEATING BOILER DESIGN
Z. Varga, P. Novak, Z. Bozic (University of Ljubljana, Faculty of Mechanical Engineering, Ljubljana, Slovenia)

INTELLIGENT BUILDINGS: INCORPORATING TECHNOLOGY INTO TODAY'S NEEDS
S. L. Brown (St-Louis Community College, St-Louis, Mi., USA)

TRI STATE HOMES: A CASE STUDY OF LIABILITY FOR DETECTIVE HOMES WHICH CREATED UNHEALTHY ENVIRONMENTS CAUSING PERSONAL INJURIES
S. J. Schooler, M. M. Mansfield, J. A. Olson (Lawton & Cates, S.C., Madison, Wi., USA)

MEASURING AND MODELLING AIR AND MOISTURE MOVEMENT IN A SMALL DWELLING
M. Kolokotroni (Research in Building Group, University of Westminster, London, UK)



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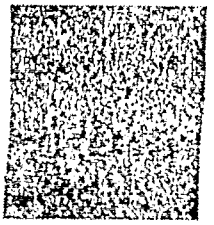


WORKING ZONE AIR CONDITIONING TECHNIQUE USED IN WOOLLEN MILL
Bingyan Luo (Xinjiang Architectural Design Institute, Xinjiang, China)

CONTROL OF EXPOSURE TO FORMALDEHYDE DURING DISSECTION WORK BY MEANS OF LOCAL EXHAUST VENTILATION SYSTEM
H. Kokotti, E. Häkkinen, M. Tapola, P. Kalliokoski (Dept. of Environmental Sciences, University of Kuopio, Kuopio, Finland; Air-Ix Oy, Tampere, Finland)

RADON PROBLEM IN UNDERGROUND WORKING PLACES
H. Kokotti, T. Keskikuru, P. Kalliokoski (Dept. of Environmental Sciences, University of Kuopio, Kuopio, Finland)

DESIGN RESPONSES TO THE ENVIRONMENTAL DEMANDS OF THE ELECTRONIC OFFICE
E. Mitchell Swann (Philadelphia, PA., USA)

A CASE STUDY OF DRAUGHT AS THE SINGLE CAUSE OF THERMAL DISCOMFORT IN AN OFFICE BUILDING
K. Senkpiel and H. Ohgke (Institut für Hygiene, Medizinische Universität, Lübeck, Germany)

A DESIGN TOOL FOR OPTIMIZE THE APPLICATION OF LEGAL ISSUES IN BUILDING CONSTRUCTION
S. A. Avila, D. C. Avila (Barcelona, Spain)

METHOD TO EVALUATE THE EFFICIENCY OF SHADING DEVICES
S. A. Avila, D. C. Avila (Barcelona, Spain)

HABITS OF USERS IN DWELLINGS DURING HEATING PERIOD ACCORDING TO INDOOR COMFORT
Dusan Petras (Slovak Technical University, Bratislava, Czechoslovakia)

ENHANCED ENERGY MANAGEMENT STRATEGY OF THE ADVANCED HOUSE PROJECT IN QUEBEC
B. Bergevin, P. Hosatte, N. Vallières, N. Bigras, L. Muyldermans (TN Conseil, Boucherville; Association Provinciale des Constructeurs d'Habitation du Québec, Québec, Canada)

AIRFLOW MODELS FOR MULTIZONE BUILDINGS
F. Haghighat (Centre for Building Studies, Concordia University, Montréal, Canada)

INDUSTRIAL AIR PROTECTION AT WORK WITH HIGHLY TOXIC SUBSTANCES
N. Z. Bitcolov (Laboratory of Industrial Aerology, Research Institute of Industrial and Marine Medicine, St. Petersburg, Russia)

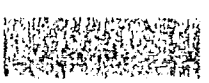
HUMAN RADIATION DATA AS INDOOR FACTORS FOR THERMAL COMFORT EVALUATIONS
G. Rizzo, G. Cannistraro, A. Mazzon (Istituto di Ingegneria Civile ed Energetica, Universita di Reggio Calabria; Dipartimento di Energetica ed Applicazioni di Fisica, Universita di Palermo, Italia)

MOISTURE BALANCE AND REQUIRED AIR CHANGE OF FLATS IN THE HUNGARIAN STANDARD
A. Zöld (TU, Budapest, Hungary)

ALTERNATIVE REFRIGERANTS TO HCFC-22 IN AIR-CONDITIONING APPLICATIONS
S. Kondepudi (Dept. of Civil & Architectural Engineering, Drexel University, PA., USA)

STUDY AND PLANNING DEFINITION OF A BIOCLIMATIC BUILDING TO BE EMPLOYED IN THE TERTIARY
G. Gatto, I. Meroni, F. Scamoni (National Council of Research, Institute of Building Technology, Milano, Italia)

SAMPLING AND ANALYSIS OF CHEMICAL POLLUTANTS OF INDOOR AIR
J. Namiesnik, T. Gorecki, L. Torres (Technical University of Gdansk, Poland; Ecole Nationale Supérieure de Chimie, Toulouse, France)



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